



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

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NP
P.J.

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/837,127	04/18/01	SEIFLER	D 10191/1069A

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MM92/1018

EXAMINER
BUDD, M

ART UNIT	PAPER NUMBER
	2834

DATE MAILED: 10/18/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 839129	Applicant(s) Seipier et al
Examiner M. B. J.	Group Art Unit 2834

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

Responsive to communication(s) filed on _____.

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

Claim(s) 14-17 is/are pending in the application.

Of the above claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 14-17 is/are rejected.

Claim(s) _____ is/are objected to.

Claim(s) _____ are subject to restriction or election requirement

Application Papers

The proposed drawing correction, filed on _____ is approved disapproved.

The drawing(s) filed on _____ is/are objected to by the Examiner

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).

All Some* None of the:

Certified copies of the priority documents have been received.

Certified copies of the priority documents have been received in Application No. _____.

Copies of the certified copies of the priority documents have been received
in this national stage application from the International Bureau (PCT Rule 17.2(a))

*Certified copies not received: _____

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). 2 (4-18-01) Interview Summary, PTO-413

Notice of Reference(s) Cited, PTO-892 Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948 Other _____

Office Action Summary

Art Unit: 2834

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 14 and 16 rejected under 35 U.S.C. 102(a) as being anticipated by Sonderegger, Inoi or Ishikawa.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Sonderegger, Inoi or Ishikawa in view of Issartel or Zimnicki.

Sonderegger, Inoi and Ishikawa teach the basic piezo electric stack but use solid layer electrodes. Zimnicki and Issartel teach using grid type electrodes to promote better strength in inter-layer bonding. Thus, for at least this reason it would have been obvious to one of ordinary skill in the art that Sonderegger, Inoi or Ishikawa could be strengthened via use of grid type electrode layers.

Claim 17 rejected under 35 U.S.C. 103(a) as being unpatentable over Sonderegger, Inoi or Ishikawa.

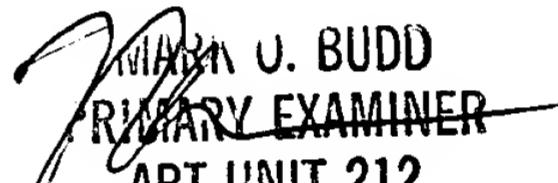
Art Unit: 2834

Each of Sonderegger, Inoi and Ishikawa teach the piezo electric stack but don't provide encapsulation. However, providing an element for its known, expected benefit has long been held to be within the skill expected of the routineer. Thus to provide encapsulation to protect from a hostile environment or provide a pre-load to the piezo stack of Sonderegger, Inoi or Ishikawa would have been obvious to one of ordinary skill in the art.

Further cited of interest are Ogawa and Omatsu.

Budd/nt

10/16/01


MARK U. BUDD
PRIMARY EXAMINER
ART UNIT 212